SRC DEVICES

DESCRIPTION

SRC Devices two electrode line protectors are designed for a high degree of surge protection in AC line applications at low cost. The two models, AC120 and AC240, are designed for use with 120VAC and 240VAC lines, respectively. These gaps are able to extinguish in the presence of AC follow-on currents up to and higher of 300A. AC line protectors function as switches and therefore handle currents that far surpass other types of transient voltage protection.

FEATURES

- High AC follow-on current capability (>300A-pk)
- Small size
- Rugged ceramic-metal construction
- Low capacitance (<1pF)
- Available with or without leads
- Available in tape-and-reel packaging

APPLICATIONS

- Long branch circuits (AC wall outlet)
- Short branch circuits (at breaker box, computer, etc)
- Power supplies
- Test equipment
- Submersible pumps
- Medical electronics

AGENCY APPROVALS

- UL1449 recognized (AC120)
- Meets IEEE C62.41-1991
- CSA approved

RATINGS @ 25°C

Parameter	Min	Nom	Max	Units
DC Breakdown voltage				
AC120	225	-	500	V
AC1240	425	-	715	V
Impulse Breakdown voltage				
AC120	-	-	700	V
AC240	-	-	800	V
Insulation resistance	10^{10}	-	-	Ohms
Capacitance	-	-	1	pF
Operational temperature	-40	-	+125	°C

(See detailed specifications for more information)

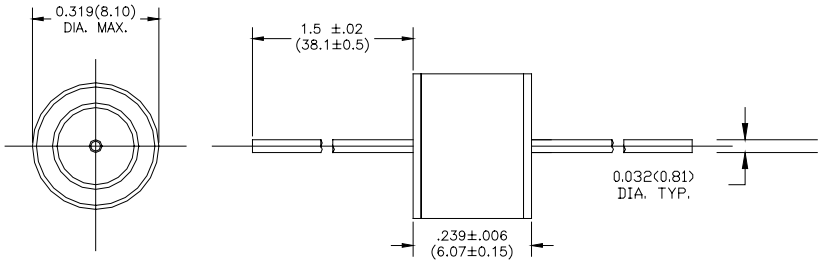
SPECIFICATIONS

All characteristics at 25 °C

Parameters	Conditions	AC120L Min	AC120L Nom	AC120L Max	AC240L Min	AC240L Nom	AC240L Max	Units
Device specifications								
DC breakdown	100 V/sec	225	-	500	425	-	715	V
Impulse breakdown	100 V/useg	-	-	700	-	-	800	V
Insulation resistance	100 V	10^{10}	-	-	10^{10}	-	-	Ohms
Capacitance	1 MHz	-	-	1.0	-	-	1.0	pF
Arc voltage	I=5A min	-	20	-	-	20	-	V
Life ratings(1)								
Max current surge	10KA (8/20us)	4	-	-	4	-	-	Shots
AC Current	10 times;1 sec;60 Hz	-	N/A	-	-	N/A	-	A
AC Follow-On Current	1/2 cycle @ 60Hz	-	-	>300	-	-	>300	A pk

[1]End-of-Life limits are:
DC: same as minimum initial DC breakdown voltage limit.
Impulse: less than breakdown limit + 50%.

MECHANICAL DIMENSIONS



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